

10/612,493

# STN - STRUCTURE SEARCH

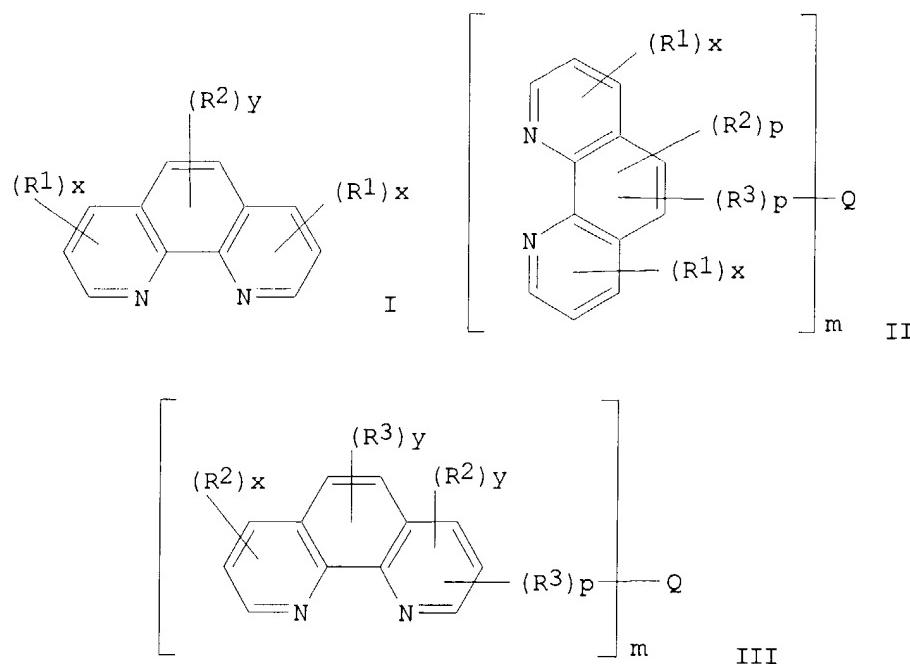
5-8.04

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inventor

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2004:41470 CAPLUS  
DOCUMENT NUMBER: 140:119648  
TITLE: Charge transport **compositions** and electronic devices made with such **compositions**  
INVENTOR(S): Lecloux, Daniel David; Wang, Ying  
PATENT ASSIGNEE(S): E.I. Du Pont de Nemours and Company, USA  
SOURCE: PCT Int. Appl., 32 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 5  
PATENT INFORMATION:

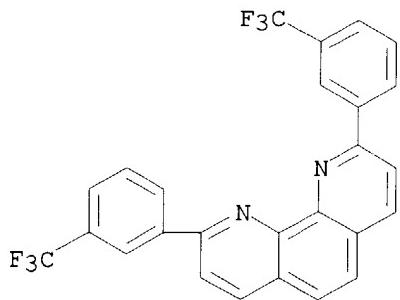
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004005288	A2	20040115	WO 2003-US21610	20030709
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2004066135	A1	20040408	US 2003-612482	20030702
US 2004068115	A1	20040408	US 2003-612493	20030702
US 2004077860	A1	20040422	US 2003-612704	20031208
PRIORITY APPLN. INFO.:			US 2002-394767P P	20020710
			US 2003-458277P P	20030328
OTHER SOURCE(S):	MARPAT	140:119648		
GI				



AB Compns. comprising phenanthroline derivs. are described in which the derivs. are described by the general formulas I, II, or III (R1 and R2 = H, F, Cl, Br, alkyl, heteroalkyl, alkenyl, alkynyl, aryl, heteroaryl, CnHaFb, OCnHaFb, C6HcFd, and OC6HcFd and are the same or different at each occurrence; R3 = a single bond, alkylene, heteroalkylene, arylene, heteroarylene, arylenealkylene, and heteroarylenealkylene groups and are the same or different at each occurrence; Q = a single bond or a multivalent group; m ≥ 2; a, b, c, and d = 0 or integers such that a+b = 2n + 1, and c + d = 5; n is an integer; p = 0-1; x is 0-3; y = 0-2; with the proviso that, for compds. described by the general formula I there is ≥1 substituent on an aromatic group selected from F, CnHaFb, OCnHaFb, C6HcFd, and OC6HcFd). Electronic devices (e.g., light-emitting diodes, light-emitting electrochem. cells, or photodetectors) are also described in which ≥1 layer comprises the phenanthroline derivs.

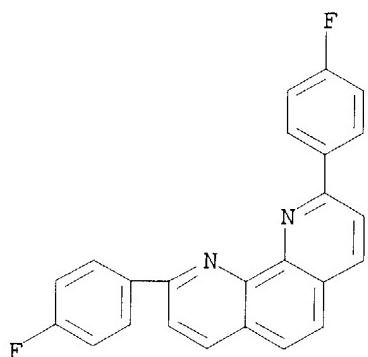
IT 647375-43-7P 647375-48-2P 647375-54-0P  
RL: DEV (Device component use); SPN (Synthetic preparation); PREP  
(Preparation); USES (Uses)  
(phenanthroline derivative-containing compns. and electronic devices made  
using

RN 647375-43-7 CAPLUS  
CN 1,10-Phenanthroline, 2,9-bis[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



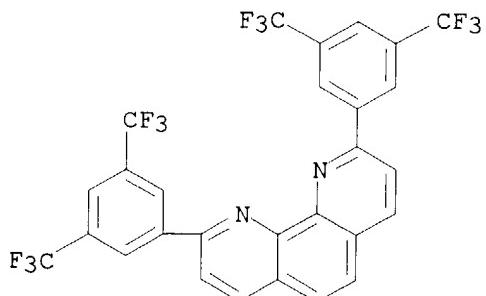
RN 647375-48-2 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 647375-54-0 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis[3,5-bis(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:581980 CAPLUS

DOCUMENT NUMBER: 135:167519

TITLE: Insulated nanoscopic pathways, **compositions** and devices of the same based on metalloc-rotaxane

INVENTOR(S): Swager, Timothy M.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 81 pp.

CODEN: PIXXD2

10/612,493

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001057140	A1	20010809	WO 2001-US3784	20010205
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1263887	A1	20021211	EP 2001-907013	20010205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				

PRIORITY APPLN. INFO.: US 2000-180357P P 200000204  
WO 2001-US3784 W 20010205

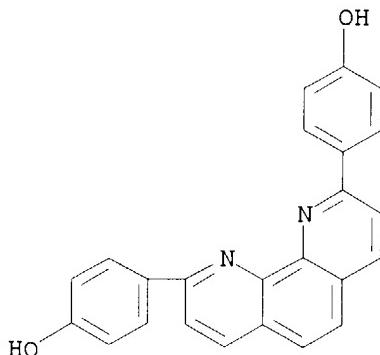
AB The present invention relates to compns. which provide an insulated nanoscopic pathway. The pathway comprises mols., polymers or nanoscopic particles capable of conducting charge integrated with nanoscopic switches which are capable of electronic communication with the charge-conducting species. Turning "on" the nanoscopic switch electronically "connects" the various mols./particles, such that a continuous nanoscopic pathway results. The nanoscopic pathway can be used in a sensor, where the switches can act as receptors for analytes.

IT 88498-43-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
(in preparation of insulated nanoscopic pathways comprising metalloc-rotaxane, a dielec. insulator, and a nanoscopic switch)

RN 88498-43-5 CAPLUS

CN Phenol, 4,4'-(1,10-phenanthroline-2,9-diyl)bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1999:245216 CAPLUS  
DOCUMENT NUMBER: 131:27029  
TITLE:  $\pi-\pi$  Stacking-Induced Cooperativity in Copper(I) Complexes with Phenanthroline Ligands  
AUTHOR(S): Meyer, Michel; Albrecht-Gary, Anne-Marie; Dietrich-Buchecker, Christiane O.; Sauvage, Jean-Pierre  
CORPORATE SOURCE: Laboratoire de Physico-Chimie Bioinorganique, Faculte de Chimie, Strasbourg, 67000, Fr.  
SOURCE: Inorganic Chemistry (1999), 38(10), 2279-2287

CODEN: INOCAJ; ISSN: 0020-1669

PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB The formation consts. of mono- and bischelate Cu(I) complexes with four phenanthroline derivs. were determined by absorption spectrophotometry in MeCN and in a ternary MeCN/dichloromethane/H<sub>2</sub>O 80/15/5 (volume/volume) mixture. The influence of electron-donating Me and anisyl substituents in positions 2 and 9 of the phenanthroline core was studied using both sym. (dmp = 2,9-dimethyl-1,10-phenanthroline; dap = 2,9-di(p-anisyl)-1,10-phenanthroline) and unsym. (map = 2-(p-anisyl)-1,10-phenanthroline; Memap = 2-(p-anisyl)-9-methyl-1,10-phenanthroline) ligands. The equilibrium consts. show no significant dependence upon the solvent **composition**. The binding affinity of  $\alpha,\alpha'$ -diimine ligands and their Me-substituted derivs. is governed by the  $\sigma$ -donation of the N atoms. In contrast, anisyl substituents exert a destabilizing effect on the monochelate complexes likely due to steric hindrance, but favor the formation of the bischelate species. The resulting pos. cooperativity was rationalized in terms of intramol.  $\pi$ - $\pi$  stacking interactions between the electron rich anisyl groups and the electron accepting phenanthroline moieties. Cyanide-assisted demetalation kinetic studies were carried out to gain further insight into the structural properties of the four bischelate complexes examined. The rate consts., which reflect subtle geometrical variations, span over >5 orders of magnitude and reveal an unexpected high accessibility of the Cu(I) center in the unsym. complexes Cu(map)<sup>2+</sup> and Cu(Memap)<sup>2+</sup>.

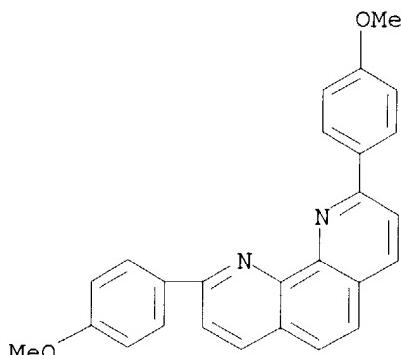
IT 89333-97-1, 2,9-Di(p-anisyl)-1,10-phenanthroline

RL: RCT (Reactant); RACT (Reactant or reagent)

(for preparation of copper(I) complexes with phenanthroline derivative ligands)

RN 89333-97-1 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:245320 CAPLUS

DOCUMENT NUMBER: 112:245320

TITLE: Lithium-selective **compositions** and

electrodes, as well as methods for their use.

INVENTOR(S): Daniel, Daniel S.; Delton, Mary H.; Warren, Harold C., III

PATENT ASSIGNEE(S): Eastman Kodak Co., USA

SOURCE: U.S., 35 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4853090	A	19890801	US 1988-187175	19880428
WO 8910555	A1	19891102	WO 1989-US1480	19890412
W: FI, SU AU 8933389	A1	19891102	AU 1989-33389	19890426
AU 607325	B2	19910228		
EP 341859	A1	19891115	EP 1989-304162	19890426
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE JP 02015079	A2	19900118	JP 1989-104766	19890426
			US 1988-187175	19880428

## PRIORITY APPLN. INFO.:

MARPAT 112:245320

AB A **composition**, electrode, and method are useful for the detection of Li ions in an aqueous liquid, where the Li-selective **composition** comprises a lipophilic group-substituted 1,10-phenanthroline, a compound capable of solvating the phenanthroline, and a supporting matrix. This **compn** can be used in a Li-selective electrode as a Li-selective membrane. The electrode can also comprise an internal reference electrode. Application is indicated for clin. chemical, biol. fluids, wastewater, cooling water, groundwater, as well as food and brewery processing fluids.

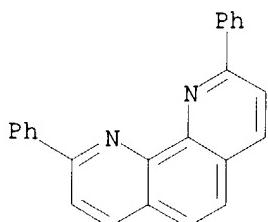
IT 25677-69-4 126617-90-1 127347-71-1

127347-72-2 127347-74-4

RL: DEV (Device component use); USES (Uses)  
(lithium-selective electrodes from)

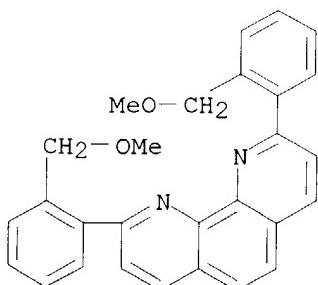
RN 25677-69-4 CAPLUS

CN 1,10-Phenanthroline, 2,9-diphenyl- (8CI, 9CI) (CA INDEX NAME)



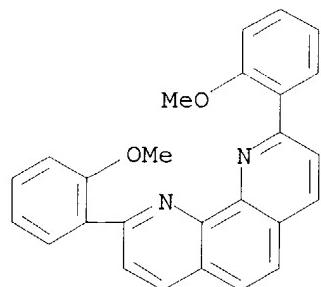
RN 126617-90-1 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis[2-(methoxymethyl)phenyl]- (9CI) (CA INDEX NAME)

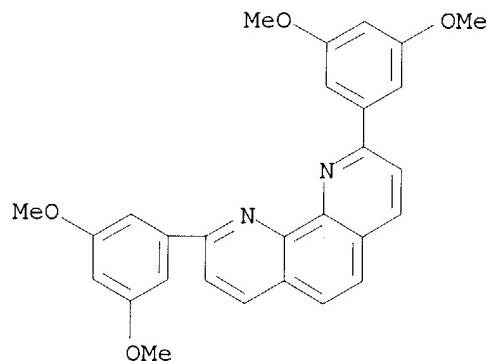


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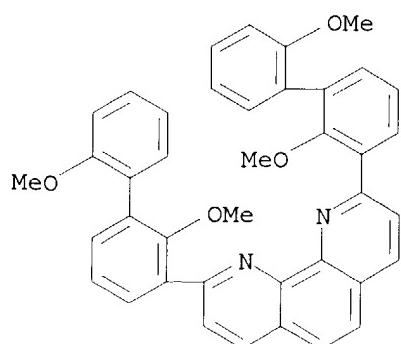
RN 127347-71-1 CAPLUS  
CN 1,10-Phenanthroline, 2,9-bis(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 127347-72-2 CAPLUS  
CN 1,10-Phenanthroline, 2,9-bis(3,5-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



RN 127347-74-4 CAPLUS  
CN 1,10-Phenanthroline, 2,9-bis(2,2'-dimethoxy[1,1'-biphenyl]-3-yl)- (9CI)  
(CA INDEX NAME)



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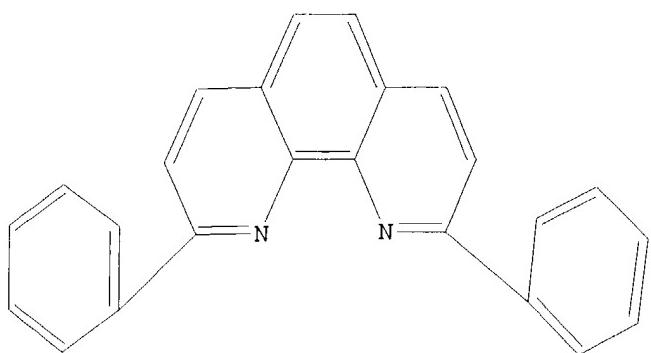
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10/612,493

L1 STRUCTURE UPLOADED  
L2 15 S L1  
L3 342 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:41:25 ON 06 MAY 2004  
L4 219 S L3  
L5 4 S L4 AND COMPOSITION?

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L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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# PALM INTRANET

Day : Thursday  
Date: 5/6/2004  
Time: 14:39:13

## Inventor Name Search Result

Your Search was:

Last Name = LECLOUX

First Name = DANIEL

Application#	Patent#	Status	Date Filed	Title	Inventor Name 30
<a href="#"><u>60458277</u></a>	Not Issued	019	03/28/2003	CHARGE TRANSPORT COMPOSITIONS AND ELECTRONIC DEVICES MADE WITH SUCH COMPOSITION	LECLOUX, DANIEL DAVID
<a href="#"><u>60403858</u></a>	Not Issued	159	08/15/2002	COMPOUNDS COMPRISING PHOSPHORUS-CONTAINING METAL COMPLEXES	LECLOUX, DANIEL DAVID
<a href="#"><u>60399934</u></a>	Not Issued	159	07/30/2002	METALLIC COMPLEXES COVALENTLY BOUND TO CONJUGATED POLYMERS AND ELECTRONIC DEVICES CONTAINING SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
<a href="#"><u>60394767</u></a>	Not Issued	159	07/10/2002	CHARGE TRANSPORT COMPOSITIONS AND ELECTRONIC DEVICES MADE WITH SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
<a href="#"><u>60347911</u></a>	Not Issued	159	11/07/2001	ELECTROLUMINESCENT IRIDIUM COMPOUNDS HAVING RED-ORANGE OR RED EMISSION AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
<a href="#"><u>60347910</u></a>	Not Issued	159	11/07/2001	ELECTROLUMINESCENT PLATINUM COMPOUNDS AND DEVICES MADE FROM SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
<a href="#"><u>60305955</u></a>	Not Issued	159	07/17/2001	SUBLIMATION SCREENING TEST AND APPARATUS	LECLOUX, DANIEL DAVID
<a href="#"><u>60290294</u></a>	Not Issued	159	05/11/2001	COPPER-CATALYZED VAPOR PHASE HYDROCYANATION OF DIOLEFINIC COMPOUNDS	LECLOUX, DANIEL
<a href="#"><u>60045753</u></a>	Not	159	05/06/1997	METAL-BASED OXIDANTS AND	LECLOUX ,

	Issued			USE THEREOF	DANIEL D.
<u>10699411</u>	Not Issued	030	10/30/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.
<u>10696401</u>	Not Issued	020	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.
<u>10696349</u>	Not Issued	020	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
<u>10696095</u>	Not Issued	030	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.
<u>10696060</u>	Not Issued	030	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
<u>10696048</u>	Not Issued	030	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH	LECLOUX, DANIEL DAVID

COMPOUNDS					
<u>10696003</u>	Not Issued	030	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYL PYRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.
<u>10669494</u>	Not Issued	020	09/24/2003	WATER DISPERSIBLE POLYTHIOPHENES MADE WITH POLYMERIC ACID COLLOIDS	LECLOUX, DANIEL DAVID
<u>10669403</u>	Not Issued	020	09/24/2003	METHOD FOR THE APPLICATION OF ACTIVE MATERIALS ONTO ACTIVE SURFACES AND DEVICES MADE WITH SUCH METHODS	LECLOUX, DANIEL DAVID
<u>10631432</u>	Not Issued	030	07/31/2003	COMPOUNDS COMPRISING PHOSPHORUS-CONTAINING METAL COMPLEXES	LECLOUX, DANIEL DAVID
<u>10625096</u>	Not Issued	030	07/22/2003	METALLIC COMPLEXES COVALENTLY BOUND TO CONJUGATED POLYMERS AND ELECTRONIC DEVICES CONTAINING SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
<u>10612704</u>	Not Issued	030	12/08/2003	CHARGE TRANSPORT COMPOSITIONS AND ELECTRONIC DEVICES MADE WITH SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
<u>10612493</u>	Not Issued	071	07/02/2003	CHARGE TRANSPORT COMPOSITIONS AND ELECTRONIC DEVICES MADE WITH SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
<u>10612482</u>	Not Issued	030	07/02/2003	ELECTRONIC DEVICES MADE WITH ELECTRON TRANSPORT AND/OR ANTI-QUENCHING LAYERS	LECLOUX, DANIEL DAVID
<u>10480974</u>	Not Issued	020	12/15/2003	SUBLIMATION SCREENING TEST AND APPARATUS	LECLOUX, DANIEL DAVID
<u>10284728</u>	Not Issued	071	10/31/2002	ELECTROLUMINESCENT PLATINUM COMPOUNDS AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
<u>10284593</u>	Not	020	10/31/2002	ELECTROLUMINESCENT	LECLOUX,

	Issued			IRIDIUM COMPOUNDS HAVING RED-ORANGE OR RED EMISSION AND DEVICES MADE WITH SUCH COMPOUNDS	DANIEL DAVID
<u>10195942</u>	Not Issued	071	07/15/2002	LUMINESCENT LANTHANIDE COMPLEXES WITH IMINE LIGANDS AND DEVICES MADE WITH SUCH COMPLEXES	LECLOUX, DANIEL DAVID
<u>10188517</u>	Not Issued	030	07/03/2002	SUBLIMATION SCREENING TEST AND APPARATUS	LECLOUX, DANIEL DAVID
<u>10140736</u>	Not Issued	094	05/08/2002	COPPER-CATALYZED VAPOR PHASE HYDROCYANATION OF DIOLEFINIC COMPOUNDS	LECLOUX, DANIEL
<u>10027421</u>	<u>6670645</u>	150	12/20/2001	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYL PYRIDINES, PHENYL PYRIMIDINES, AND PHENYL QUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.

Inventor Search Completed: No Records to Display.

**Search Another:  
Inventor**

Last Name

First Name

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